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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/850,380	05/07/2001	Ruby B. Lee	4759-105 US	2743
26817 75	590 11/30/2005		EXAMINER	
MATHEWS, SHEPHERD, MCKAY, & BRUNEAU, P.A.			SONG, HOSUK	
100 THANET CIRCLE, SUITE 306 PRINCETON, NJ 08540		ART UNIT	PAPER NUMBER	
,			2135	

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/850,380	LEE, RUBY B.			
		Examiner	Art Unit			
	i'	Hosuk Song	2135			
	The MAILING DATE of this communication a					
Period for	Period for Reply					
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reduction period for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature ply received by the Office later than three months after the mail ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 23	September 2005				
·	This action is FINAL . 2b) This action is non-final.					
3)□	, <u> </u>					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) Claim(s) <u>1-94</u> is/are pending in the application. 4a) Of the above claim(s) <u>2 and 23</u> is/are withdrawn from consideration. 5) Claim(s) <u>1,3-22,24-39,48-51,60-63,77-79 and 86-90</u> is/are allowed. 6) Claim(s) <u>40,41,43-45,47,52,53,55-57,59,64,66-72,74-75,80-81,83-84 and 91-94</u> is/are rejected. 7) Claim(s) <u>42,46,54,58,65,73,76,82,85</u> is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) 🔲 Infori	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

Application/Control Number: 09/850,380

Art Unit: 2135

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 40-41,43-45,47,52-53,55-57,59,64,66-72,74-75,80-81,83-84,91-94 are rejected under 35 U.S.C. 102(b) as being anticipated by Delayaye et al(US 4,751,733).

Claims 40,41,52: Delayaye disclose in response to a permutation instruction alternately selecting a first subword from a first sequence of subwords in a first register and a second subword from a second sequence of subwords in a second register(fig.1 and col.3,lines 25-38) and concatenating selected first subword and the selected second subword into a third sequence of subwords in a third register in (fig.3 and col.4,lines 45-56).

Claim 53: Delayaye disclose alternately selecting a first subword for each of subwords in first sequence of subwords and each of subwords in second sequence of subwords in (col.2,lines 33-55).

Claims 43,55: Delayaye disclose subword comprises one or more bits in (col.5,lines 45-49).

Claims 44,71: Delayaye disclose swapping a first subword in a first register with a second subword in a sequence of subwords in a second register and concatenating the swapped first subword(fig.1 and col.3,lines 25-38) and second subword into a second sequence of subwords in a third register in (fig.3 and col.4,lines 45-56).

Claim 72: Delayaye disclose alternately selecting a first subword for each of subwords in first sequence of subwords and each of subwords in second sequence of subwords in (col.2,lines 33-55).

Application/Control Number: 09/850,380

Art Unit: 2135

Claim 45: Delayaye disclose step of repeating swapping step for each subwords in sequence of subwords in (col.6,lines 2-15).

Claim 47: Delayaye disclose subword comprises one or more bits in (col.5,lines 45-49).

Claims 56,67,69: Delayaye disclose conditionally swapping a first subword with a second subword in a sequence of subwords dependant on permutation control bits in a first register(fig.1 and col.2,lines 60-65) and concatenating the swapped first subword and second subword into a second sequence of subwords in a second register in (col.3,lines 50-63).

Claim 57: Delayaye disclose repeating conditionally swapping step for each of subwords in sequence of subwords in (col.6,lines 2-15).

Claim 59; Delayaye disclose each subword comprises one or more bits in (col.5,lines 45-49).

Claim 64: Delayaye disclose defining a size of subword and defining a subset of subwords in sequence of subwords in (fig. 1). Delayaye disclose swapping a first subword in subset in a first register with a second subword in a sequence of subwords in a second register and concatenating the swapped first subword and second subword into a second sequence of subwords in a third register and repeating swapping step for consecutive subsets of subwords in (col.3,lines 25-58).

Claim 66: Delayaye disclose each subword comprises one or more bits in (col.5,lines 45-49).

Claims 68,70: Delayaye disclose odd elements of first subword and odd elements of second subword are 32-bit subwords, 16-bit subwords or 8-bit subwords and first subword and second subwords are 64-bit subwords in (fig. 1 and col.2, lines 43-68).

Claims 74,80: Delayaye disclose swapping a first subword in a first register with a second subword in a sequence of subwords in a second register in (fig.1 and col.3,lines 25-38) and concatenating the swapped first subword and second subword into a second sequence of subwords in a third register in (fig.3 and col.4,lines 45-56).

Application/Control Number: 09/850,380 Page 4

Art Unit: 2135

Claim 75: Delayaye disclose swapping for each of subwords in sequence of subwords in (col.2,lines 33-55).

Claim 81: Delayaye disclose conditionally selecting a first subword for each of subwords in first sequence of subwords and each of subwords in second sequence of subwords in (col.2,lines 33-55).

Claim 83: Delayaye disclose in response to a permutation instruction, conditionally swapping a first subword in a first register with a second subword in a sequence of subwords in a second register dependant on permutation control bits in (fig.1 and col.3,lines 25-38; col.2,lines 60-65) and concatencating the swapped first subword and second subword into a second sequence of subwords in a third register in (fig.3 and col.4,lines 45-56).

Claim 84: Delayaye disclose conditionally swapping for each of subwords in sequence of subwords in (col.6,lines 2-15).

Claims 91,93:Delayaye disclose in response to a permutation instruction conditionally concatenating one or more odd elements of a first subword in a first register sequentially with one or more second odd elements of a second subword in a second register in (fig.1 and col.2,lines 60-65; col.3,lines 50-63).

Claims 92,94: Delayaye disclose odd elements of first subword and odd elements of second subword are 32-bit subwords, 16-bit subwords or 8-bit subwords and first subword and second subwords are 64-bit subwords in (fig.1 and col.2,lines 43-68).

Allowable Subject Matter

- 2. Claims 1,3-22,24-39,48-51,60-63,77-79,86-90 are allowed.
- 3. Claims 42,46,54,58,65,73,76,82,85 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Application/Control Number: 09/850,380 Page 5

Art Unit: 2135

4. Previous Claim Rejections - 35 USC § 101 has been withdrawn in view of applicant's arguments. However, applicant's amendment necessitated new grounds of rejection. New rejections are presented above.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

USPTO Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 571-272-3857. The examiner can normally be reached on Tue-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/850,380

Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2135

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Page 6

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Hosuk Song Primary Examiner Art Unit 2135